



ELSEVIER

Comput. Methods Appl. Mech. Engrg. 134 (1996) 385-386

**Computer methods  
in applied  
mechanics and  
engineering**

## Contents Volume 134

### Volume 134, Nos. 1-2, 15 July 1996

Derivative superconvergence of rectangular finite elements for the Reissner-Mindlin plate <i>Z. Zhang and S. Zhang</i>	1
A time domain unstructured grid approach to the simulation of electromagnetic scattering in piecewise homogeneous media <i>K. Morgan, O. Hassan and J. Peraire</i>	17
Energy decaying scheme for non-linear beam models <i>O.A. Bauchau and N.J. Theron</i>	37
Finite element modeling of scattering problems involving infinite domains using drilling degrees of freedom <i>J. Kim, V.V. Varadan and V.K. Varadan</i>	57
Geometric conservation laws for flow problems with moving boundaries and deformable meshes, and their impact on aeroelastic computations <i>M. Lesoinne and C. Farhat</i>	71
The lifting rotor inflow mode shapes and blade flapping vibration system eigen-analysis <i>Y.-R. Wang and D.A. Peters</i>	91
Quadratic, streamline upwinding for finite element method solutions to 2-D convective transport problems <i>B.M. DeBlois</i>	107
Coupling boundary-elements and finite-elements—A structured approach <i>U. Häußler-Combe</i>	117
A critical displacement approach for predicting structural instability <i>E. Oñate and W.T. Matias</i>	135
Non-linear transient analysis of submerged circular plates subjected to underwater explosions <i>J. Jiang and M.D. Olson</i>	163
A local predictive convection-diffusion refinement indicator for the Tri-Tree adapted finite element multigrid algorithm of the Navier-Stokes equations <i>S.Ø. Wille</i>	181

**Volume 134, Nos. 3-4, 1 August 1996****Special issue on  $p$ - and  $hp$ -methods**

On the stability of symplectic and energy-momentum algorithms for non-linear Hamiltonian systems with symmetry <i>O. Gonzalez and J.C. Simo</i>	197
Numerical computation of algorithmic (consistent) tangent moduli in large-strain computational inelasticity <i>C. Miehe</i>	223
Finite element simulation of mold filling using marker particles and the $k$ - $\epsilon$ model of turbulence <i>K. Zaidi, B. Abbès and C. Teodosiu</i>	241
Three-dimensional unstructured mesh generation: Part 1. Fundamental aspects of triangulation and point creation <i>Y. Zheng, R.W. Lewis and D.T. Gethin</i>	249
Three-dimensional unstructured mesh generation: Part 2. Surface meshes <i>Y. Zheng, R.W. Lewis and D.T. Gethin</i>	269
Three-dimensional unstructured mesh generation: Part 3. Volume meshes <i>R.W. Lewis, Y. Zheng and D.T. Gethin</i>	285
Vorticity boundary conditions for Navier-Stokes equations <i>M. Souli</i>	311
Robust and efficient methods for stochastic finite element analysis using Monte Carlo simulation <i>M. Papadrakakis and V. Papadopoulos</i>	325
Parallel adaptive boundary element analysis <i>N. Kamiya, H. Iwase and E. Kita</i>	341
Simulation of multiple spheres falling in a liquid-filled tube <i>A.A. Johnson and T.E. Tezduyar</i>	351
Author Index of Volume 134	375
Subject Index of Volume 134	377
Instructions to authors	383
Contents Volume 134	385

